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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/960,481	09/24/2001	Joseph R. Byrum	38-21(15367)C	6590
7590 11/18/2003			EXAMINER	
Gail Wuellner			BORIN, MICHAEL L	
Monsanto Com	прапу			
Mail Zone E2NA			ART UNIT	PAPER NUMBER
800 N. Lindbergh Blvd.			1631	
St. Louis, MO 63167			DATE MAILED: 11/18/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Amaliastica No	Applicant(a)			
	Application No.	Applicant(s)			
Office Action Summary	09/960,481	BYRUM ET AL.			
Office Action Summary	Examiner	Art Unit			
The MAILING DATE of this communication and	Michael Borin	1631			
Th MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period was Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	66(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed vs will be considered timely. Ithe mailing date of this communication. ED (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on 01 Au	<u>igust 2003</u> .				
2a) This action is FINAL . 2b) ⊠ This a	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
 4) Claim(s) 8 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 8 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. §§ 119 and 120					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of the since a specific reference was included in the first since a specific reference was included in the first since a specific reference was included in the first sentence of the reference was included in the firs	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)). of the certified copies not received priority under 35 U.S.C. § 119(at sentence of the specification or existence of the specification or existence of the specification at the priority under 35 U.S.C. §§ 120	ion No ed in this National Stage ed. e) (to a provisional application) r in an Application Data Sheet. eeived. and/or 121 since a specific			
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 09	5) 🔲 Notice of Informal P	(PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

Status of Claims

1. Response to restriction requirement filed 08/01/2003 is acknowledged.

Applicants elected, with traverse, Group I, and nucleic acid of SEQ ID No 5278.

However, upon review of the application, it was discovered that pursuant to

amendment filed 09/24/2001, ckaims 1-7 have been canceled and claim 8 (replacing

claim 1) is submitted. Consequently, both the restriction requirement, and applicant's

election of Group I are moot. As to election of a group drawn to particular sequence,

applicant elected, with traverse, SEQ ID No. 5278. Applicant's arguments were

considered but are not deemed to be convincing. As to the number of sequences

examined, MPEP 803.04 states:

Nucleotide sequences encoding different proteins are structurally distinct chemical compounds and are unrelated to one another. These sequences are thus deemed to normally constitute independent and distinct inventions within the meaning of 35 U.S.C. 121. Absent evidence to the contrary, each such nucleotide sequence is presumed to represent an independent and distinct invention, subject to a restriction requirement pursuant to 35 U.S.C. 121 and 37 CFR

1.141

Examination will be restricted only to a Group drawn to elected sequence. The

restriction requirements still deemed proper and is therefore made FINAL. Claim 8 is

addressed to the extent it reads on the elected SEQ ID No. 5278. Amendment of

claim 8 to read on the elected sequence is requested.

Sequence Listing

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2. The computer-readable sequence listing was approved by STIC for matters of

form.

Specification

3. The disclosure is objected to because it contains an embedded hyperlink and/or

other form of browser-executable code. See, for example, page 5. Applicant is

requested to delete the embedded hyperlink and/or other form of browser-executable

code. See MPEP § 608.01(b).

Claim Rejections - 35 U.S.C. § 101/112-1

The following is a quotation of the 35 U.S.C. § 101:

"Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter or any new and useful improvement thereof, may obtain a patent therefore, subject to the conditions and requirements of this title".

The following is a quotation of the first paragraph of 35 U.S.C. § 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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4. Claim 8 is rejected under 35 U.S.C. § 101 because the claimed invention lacks patentable utility due to its not being supported by either specific and/or substantial utility or a well established utility. The claimed subject matter is not supported by a specific, substantial, and credible utility because the disclosed uses are generally applicable to broad classes of this subject matter. In addition, further characterization of the claimed subject matter would be required to identify or reasonably confirm a "real world" use. The examiner does not find an adequate nexus between the evidence of record and the asserted properties of the claimed subject matter.

The claim is drawn to substantially purified nucleic acid molecule of SEQ ID NO. 5278 that encodes a soybean protein or a fragment of said maize protein. No open reading frame, start/stop codons, or encoded protein is identified in the specification for SEQ ID NO. 5278. No information about a soybean protein encoded by the particular SEQ ID NO. 5278 is provided. There is no other particular identifying information associated with any SEQ ID NO. 5278. The specification does not list any potentially homologous prior art sequences for SEQ ID NO. 5278.

General uses of polynucleotides set forth in the specification, as filed, include acquiring genes, identifying polymorphisms, determining plant traits, and DNA mapping. None of these is considered to be specific and substantial in view of the limited information provided in the specification. No plant traits are attributed to SEQ

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ID NO.5278. No complete gene is disclosed for SEQ ID NO. 5278. No DNA maps or chromosomal locations are identified. No polymorphisms are identified. specification does not disclose how a polymorphism would be recognized by those of ordinary skill in the art given the incomplete sequences disclosed. Further research and experimentation would be required to identify a full length sequence that encoded a full-length protein, to characterize the chromosomal location, to determine the presence of polymorphisms, and to determine any associated plant traits. Identifying and studying the properties of the claimed subject matter itself or the mechanisms in which the claimed subject matter is involved does not define a "real world" context or use. Similarly, the other listed and asserted utilities are neither substantial nor specific due to being generic in nature and applicable to a myriad of such compounds. Note, because the claimed invention is not supported by a specific and substantial asserted utility for the reasons set forth above, credibility has not been assessed. Neither the specification as filed nor any art of record discloses or suggests any property or activity for the nucleic acid compounds such that another non-asserted utility would be well established for the compounds.

The examiner does not find an adequate nexus between the evidence of record and the asserted properties of the claimed subject matter. Applicant should explicitly identify a specific, substantial, and credible utility for the claimed invention and

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establish a probative relation between any evidence of record and the originally

disclosed properties of the claimed invention.

5. Claim 8 is also rejected under 35 U.S.C. 112, first paragraph. Specifically,

since the claimed invention is not supported by either a credible, specific, and

substantial asserted utility or a well established utility for the reasons set forth above,

one skilled in the art clearly would not know how to use the claimed invention.

Conclusion.

6. No claims are allowed

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Michael Borin whose telephone number is (703)

305-4506. Dr. Borin can normally be reached between the hours of 8:30 A.M. to

5:00 P.M. EST Monday to Friday. If attempts to reach the examiner by telephone are

unsuccessful, the examiner's supervisor, Mr. Michael Woodward, can be reached on

(703) 308-4028. The fax telephone number for this group is (703) 305-3014.

Any inquiry of a general nature or relating the status of this application should

be directed to the Group receptionist whose telephone number is (703) 308-0196.

MICHAEL BORIN, PH.D PRIMARY EXAMINER